## Specifications

Pressure range	1~100MPa	Impact resistance	980m/s <sup>2</sup> (11msec or less)		
Power	VMSI: 10~30V DC VMSV: 12~30V DC	Vibration resistance	196m/s <sup>2</sup> (10Hz~2kHz)		
Output	VMSI: 4~20mA VMSV: 1~5V	Protection rating	IP67 **Only when our M12 connector cable is connected		
Accuracy(%1)	±0.5%F.S.(@25°C)	Materials of diaphragm/connecting thread	17-4PH		
Compensated temperature range	-40~120°C	Case	SUS304		
Operating temperature range	-40~120°C	Dielectric strength	>100MΩ(@250V DC)		
Storage temperature range	-40~120℃	Withstand voltage	100V AC(1 minute between all terminals and case)		
Safe overload rating	200% / 150%(100MPa only)	Sensor weight	1~50MPa: 65g 100MPa: 85g		
Burt overload rating	500% / 200% (100MPa only)	CE marking	EMC directive, Europe RoHS directive conformity product		
Stability	±0.25%F.S./year	Safe Load Resistance	$VMSI: 150\Omega max(DC11V), 500\Omega max(DC24V)  VMSV: 2k\Omega \ or \ more$		
Total Error Band (%2)	±1.0%F.S.(-20~85°C)、±1.5%F.S.(-40~-20°C)、±3.0%F.S.(85~120°C)	Operating current	VMSV:5mA(MAX)		
Response	<1.5ms	Fastening Torque; Recommended	70~75Nm %100MPa only		

(%1)Non Linearity/Hysteresis/Repeatability included. (%2)Non Linearity/Hysteresis/Repeatability/Temperature effect on zero balance/Temperature effect on span load included.

Model Selection	①Model	②Analog output	③Calibration	4 Screw	Option
Example	VMS	2	3	4	

Selection	Check	Model	Specifications						
①Model	0	VMS	Pressure Transmitter						
			Output type Safe I		ad resistar	nce	Consumption current	Power	
②Analog output		I	4~20mA	150Ωmax(DC11\	/) 500Ωι	max(DC24V)	_	10~30V DC	
		V	1~5V	2	kΩ以上		5mA (MAX)	12~30V DC	
③Calibration		001	0∼1MPa						
		002	0∼2MPa						
		005	0∼5MPa						
		010	0~10MPa						
		020	0~20MPa						
		035	0~35MPa						
		050	0∼50MPa						
		100	0~100MPa						
4 Screw		R2	R1/4 %Available only when calibration range 001 ~ 050 is selected G3 G3/8 %Available only when calibration range				ration range 100 is selected		
		NT-S00343A-2M-2S	M12 connector cable (stra	aight type, 2 wire, for VMSI) 2m		NT-S00344A-2M-2S	M12 connector cable (angle	, 2 wire, for VMSI) 2m	
		NT-S00343A-2M-3S	M12 connector cable (stra		NT-S00344A-2M-3S	M12 connector cable (angle, 3 wire, for VMSV) 2m			
Option		NT-S00343A-5M-2S	M12 connector cable (stra		NT-S00344A-5M-2S	M12 connector cable (angle, 2 wire, for VMSI) 5m			
(Sold separately)		NT-S00343A-5M-3S	M12 connector cable (stra		NT-S00344A-5M-3S	M12 connector cable (angle, 3 wire, for VMSV) 5m			
		Copper packing	G3/8			3-point measurement Test report		ort	
		for VMS		alibration range 100 is selected		5-point measurement	Test rep	ort	

### Connection screw External dimensions [Unit:mm] ●1~5MPa ●10~50MPa ●100MPa Copper packing (100MPa only) ●1~50MPa 12.8 10.3 2×C0.2 HFX19<sup>-0</sup> HFX19 Cable connection diagram VMSI\*\* Pin2:Output •100MPa (77.6) Types of M12 connector cable Straight type APTCOM. VMSV\*\* Pin2:Output < € Recommended fastening torque: 70~75Nm \* Refasten as necessary.

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March 2025

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# **VALCON®**

## **A New Standard for Pressure Sensor** with Built-in Amplifier

**Pressure Transmitter** 

# VMSI/VMSV series



















# Compact, High-accuracy and Capable of Measuring Pressures in Various Industries and Applications under any Conditions

**Pressure Sensor with Built-in Amplifier** 

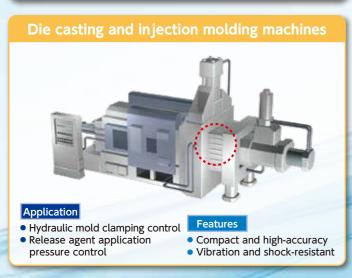
[For mass production only] Custom-made pressure transmitter VMS series is

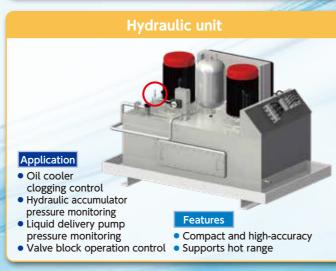


The VMSI/VMSV series pressure sensors with built-in amplifier are specialized for medium and high pressure ranges of 1 to 100 MPa. Though compact and lightweight in design, these models offer a high accuracy of ±0.5%F.S. (at 25°C) and can be used in the temperature range of -40 to 120°C. Moreover, they are IP67-rated, have superior vibration and shock resistance, and are suitable for many different applications.















# • Transmission clutch • Compact and high-accuracy • Waterproof hydraulic control • Supports hot range • Vibration

Commercial refrigerator

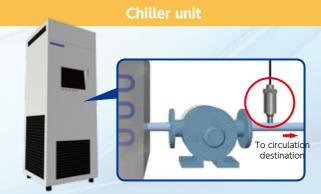


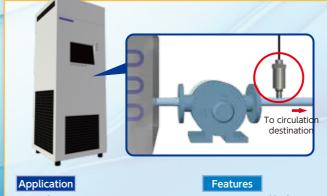
• Refrigerant circulation pressure

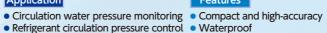
### Compact and high-accuracy Supports hot and cold ranges Waterproof circulation pressure monitoring • Supports hot range

# Hot water / chemical / steam Compact and high-accuracy

**Autoclave** 







## Vapor boiler Vapor pressure monitoring Supply water pressure monitoring Compact and high-accuracy Supports hot rangeWaterproof

